

FIG.1

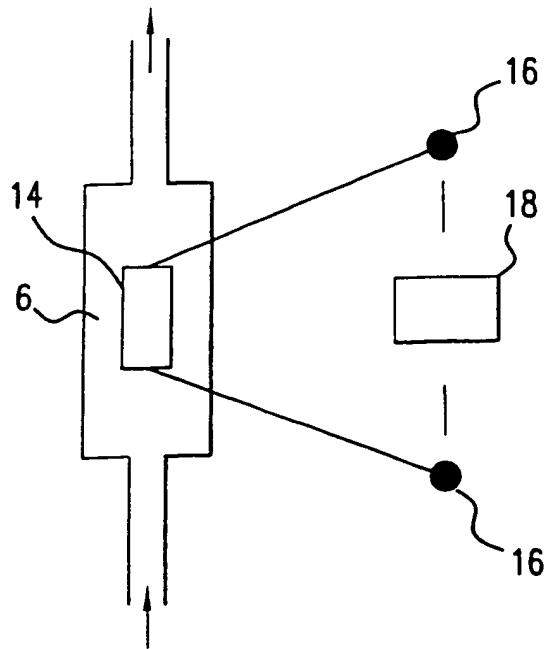


FIG.2

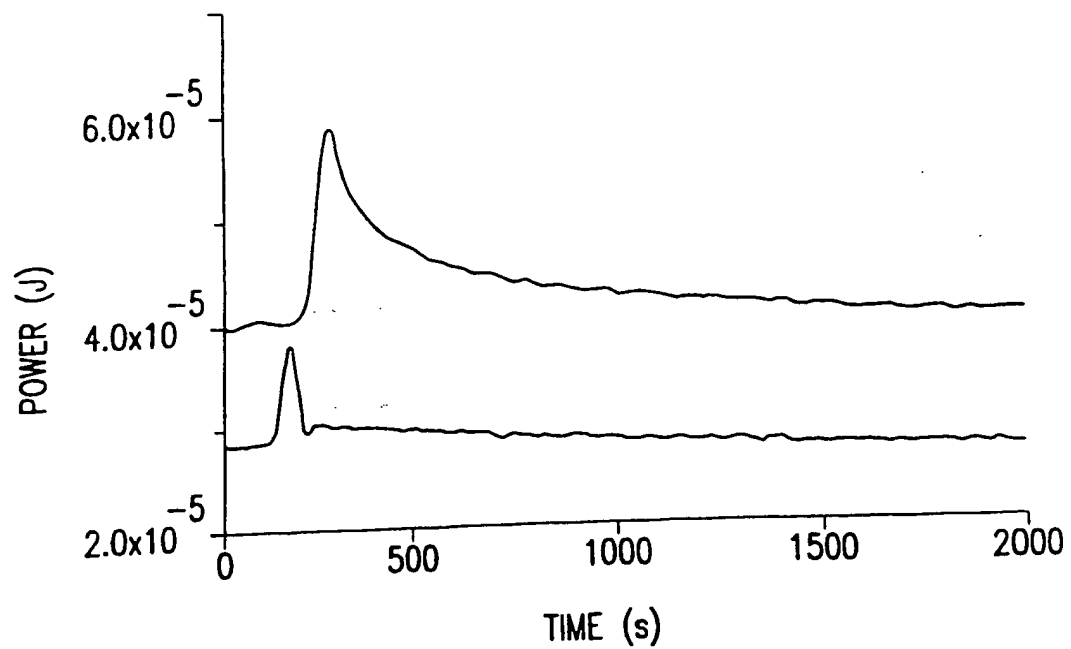


FIG.3

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5' primer
3' template C G C T A A — 5'

dGTP
dCTP

4 2 15

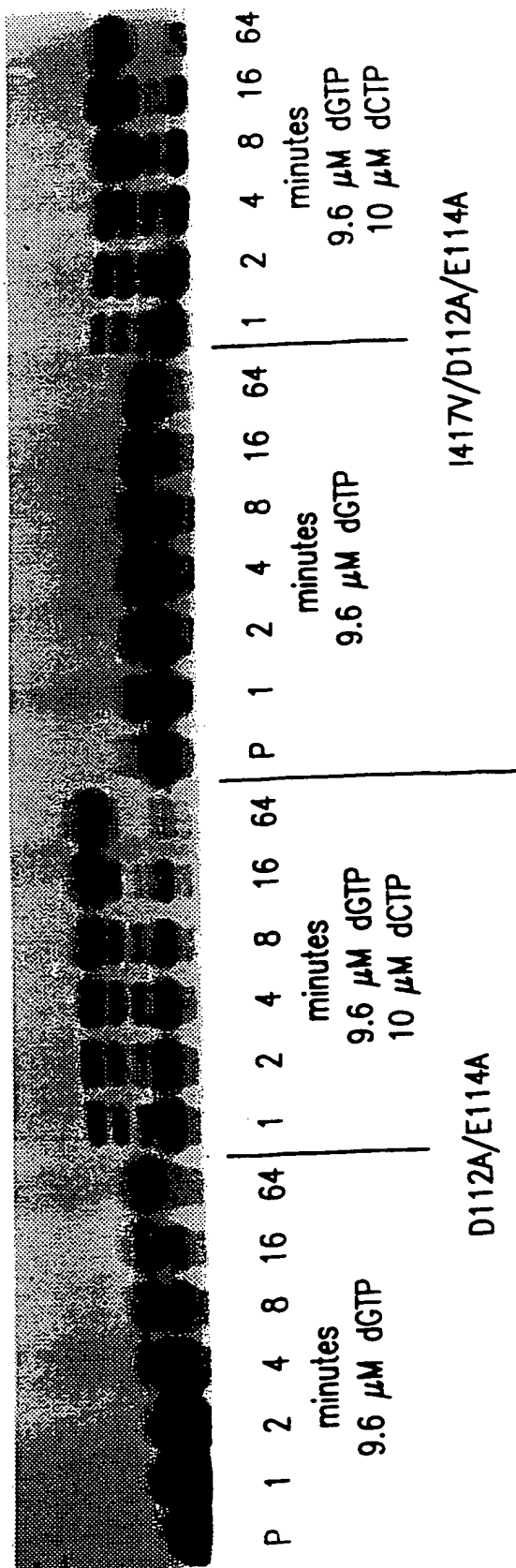
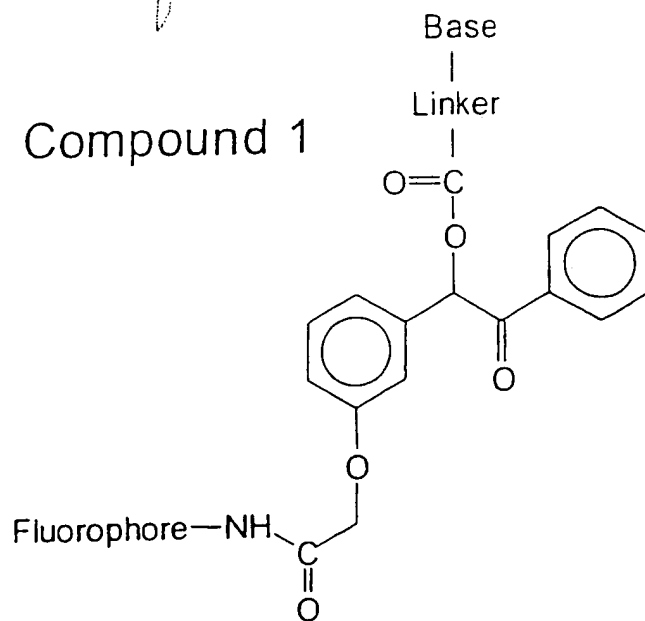


FIG.4

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Compound 1



$h\nu$

Compound 2

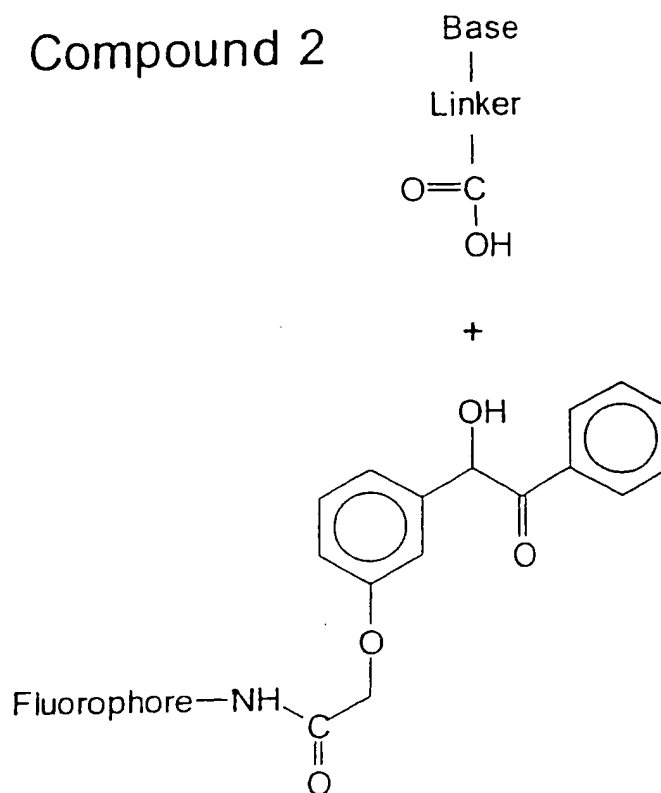
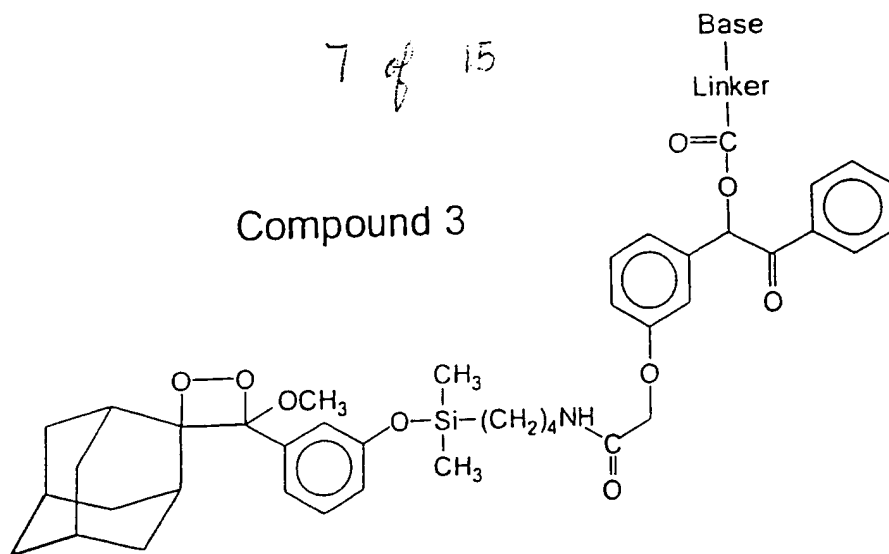


FIG.5



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Compound 3

 $\downarrow h\nu$

Compound 5

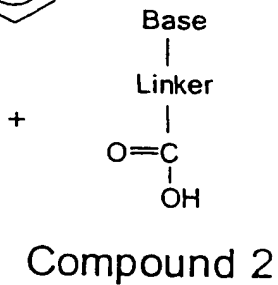
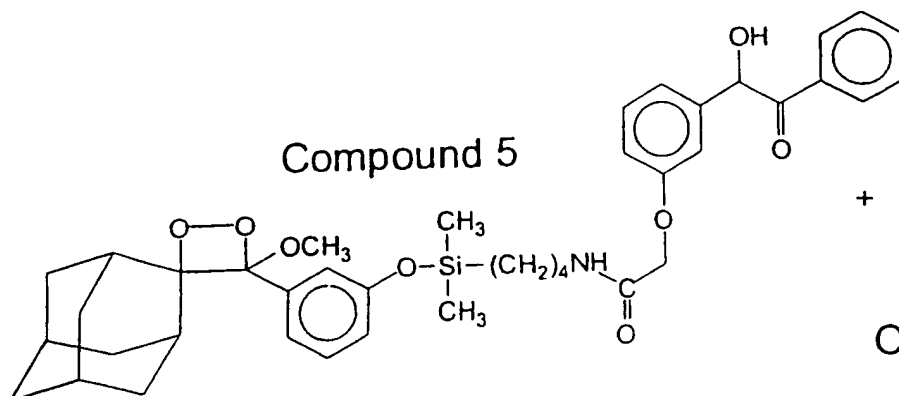
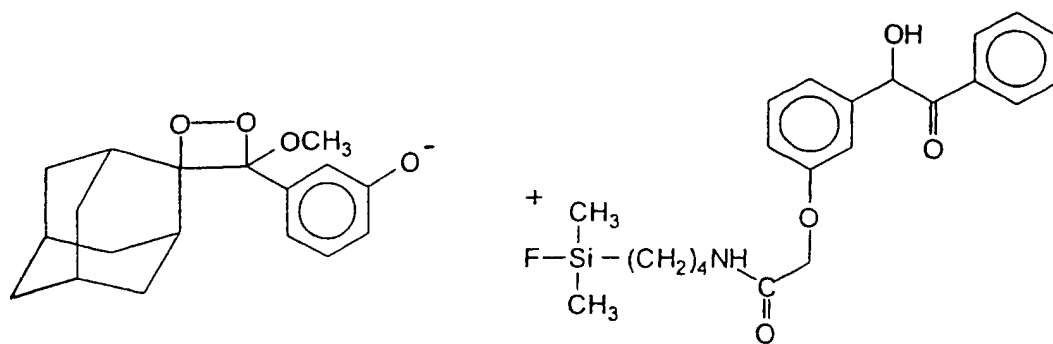
 $\downarrow F^-$  $\downarrow h\nu$

FIG. 7

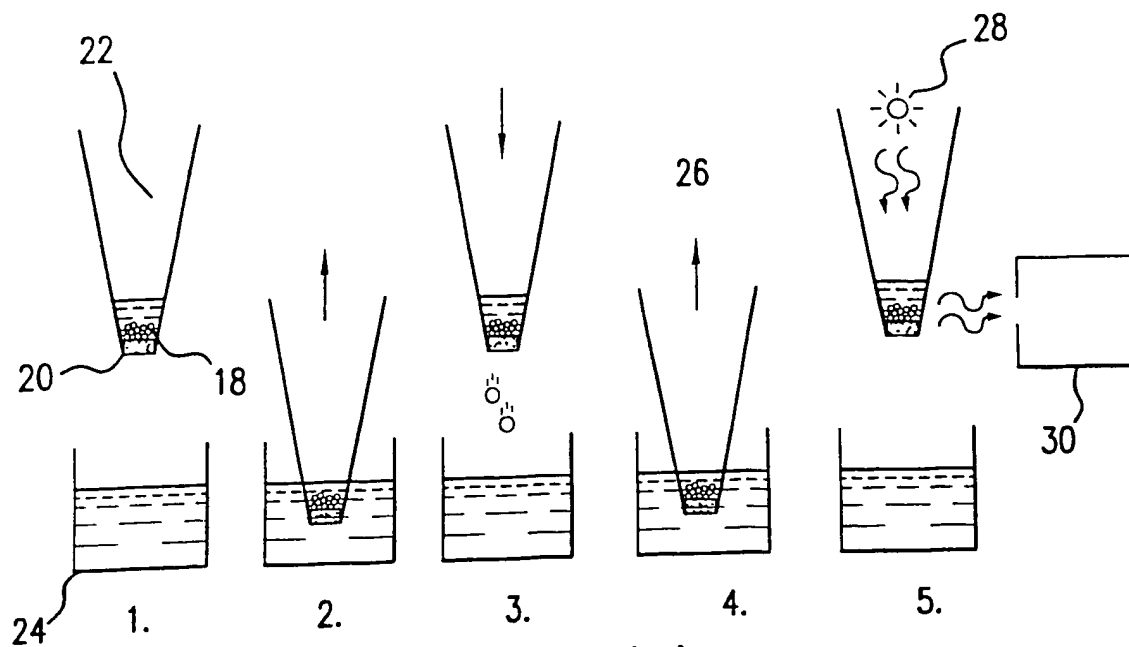


FIG. 8(a)

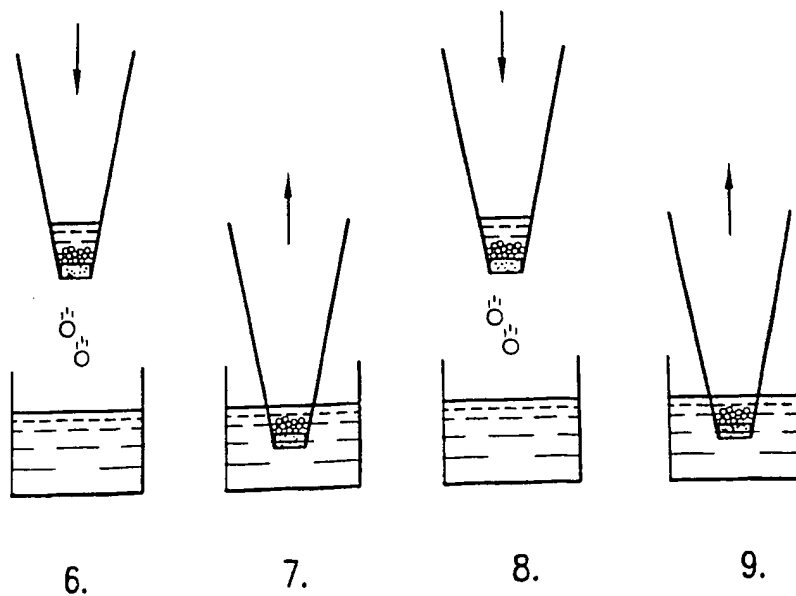


FIG. 8(b)

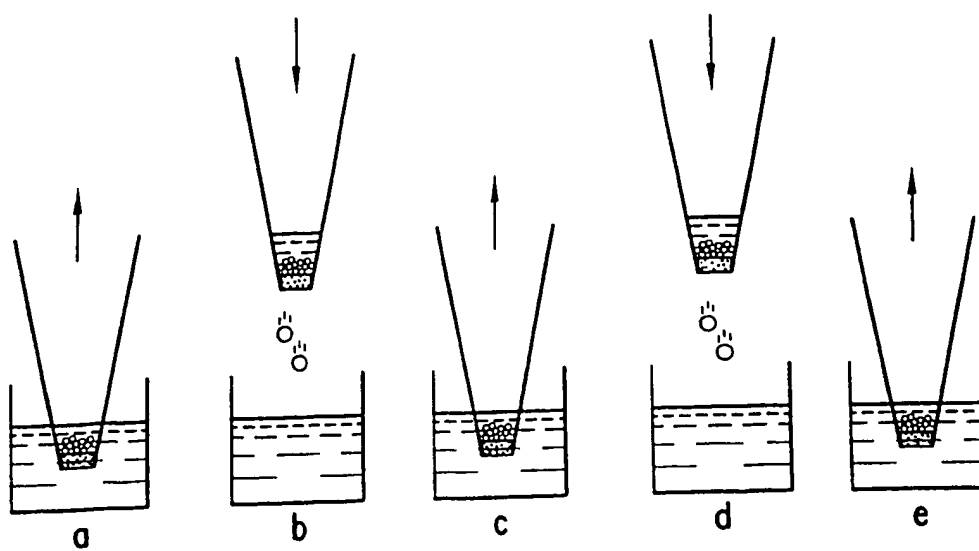


FIG.9

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MECHANISM OF PHOTOBLEACHING OF FLUORESCIN BY DPI (DIPHENYLIDONIUM ION)

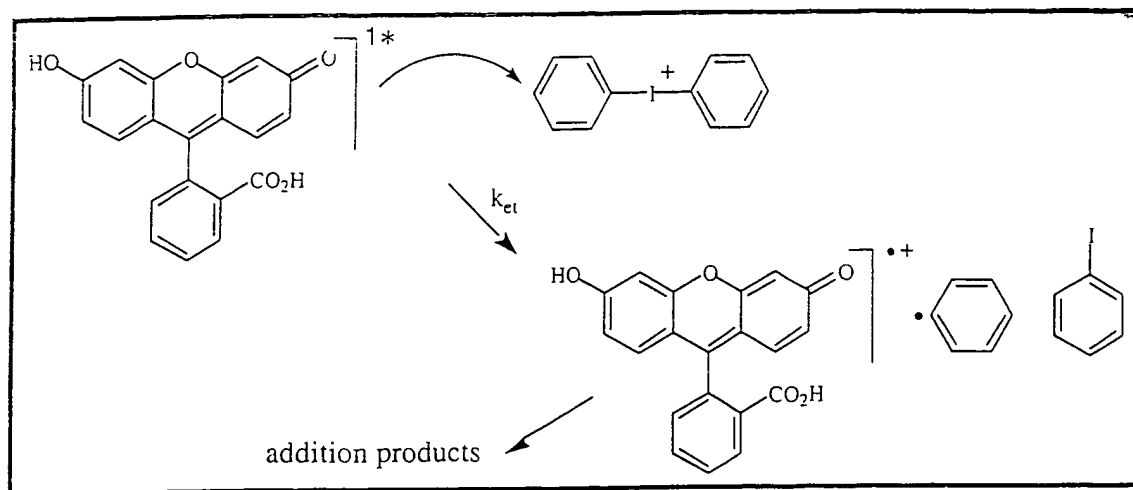
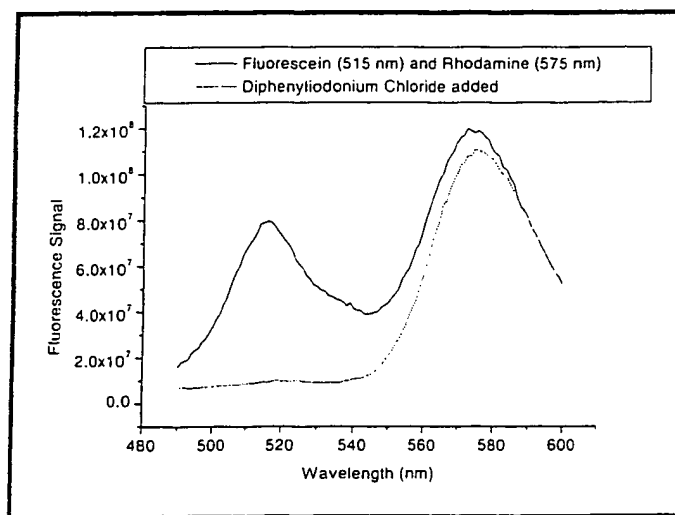


FIGURE 10

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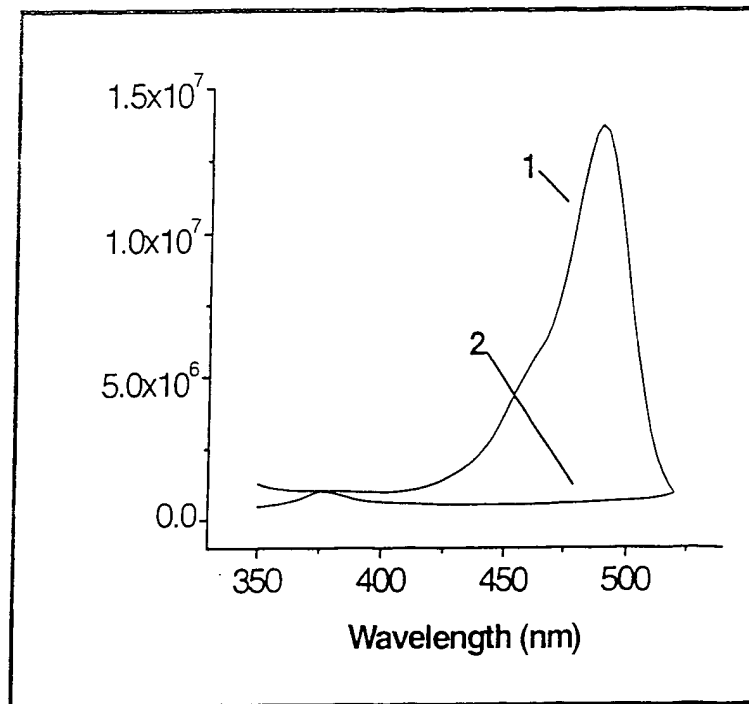


Fluorescence spectra of equimolar fluorescein and tetramethylrhodamine before and after addition of diphenyliodonium chloride

FIGURE 11

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10220-222460

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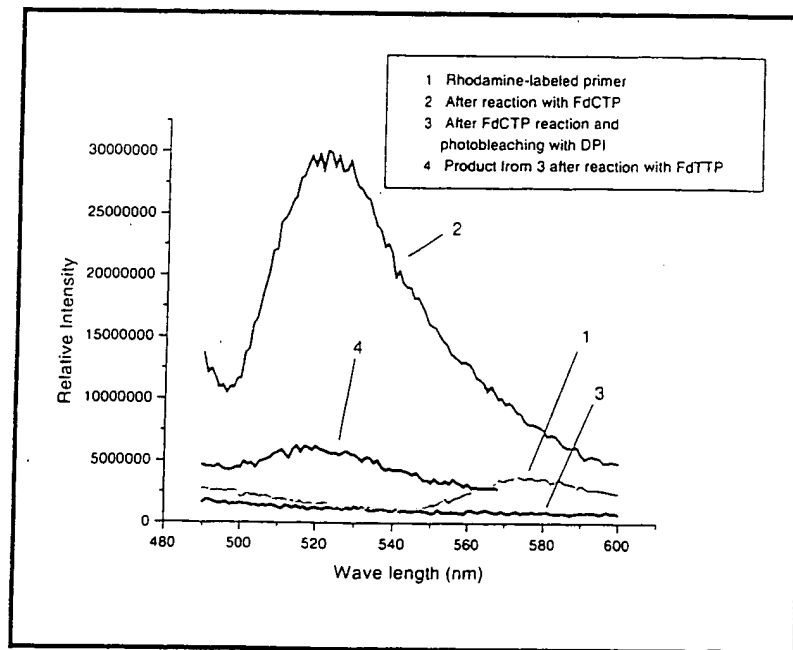


UV absorption spectra: (1) Fluorescein (2) Fluorescein + DPI after single flash from camera strobe

FIGURE 12

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13 8 15

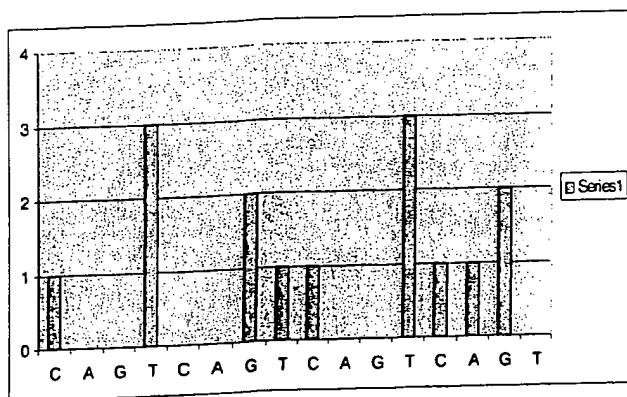


Results of single-nucleotide polymerase reaction with DPI photobleaching between incorporations

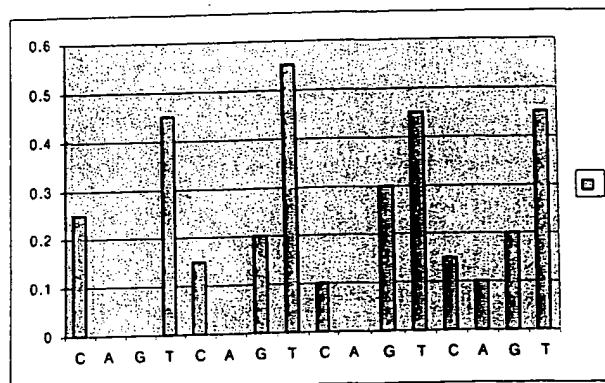
FIGURE 13

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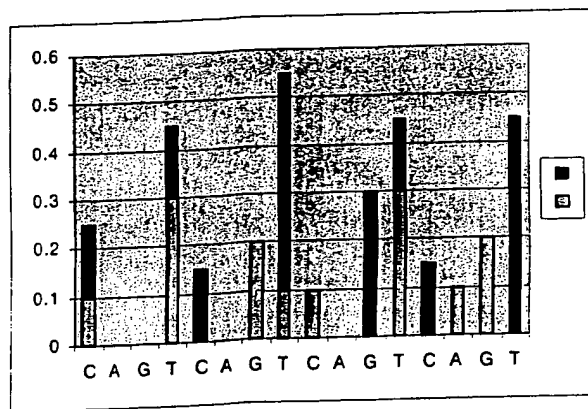
00941880.08801



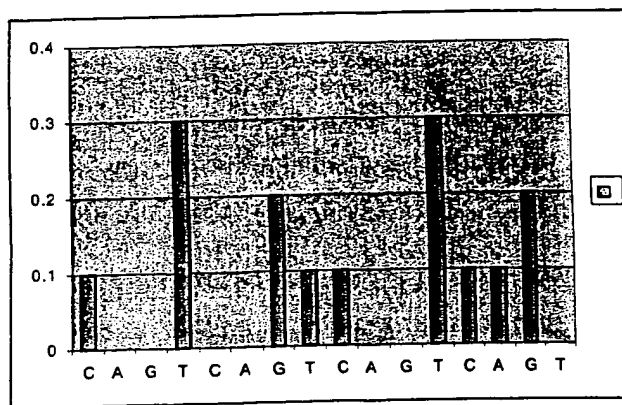
A



B



C

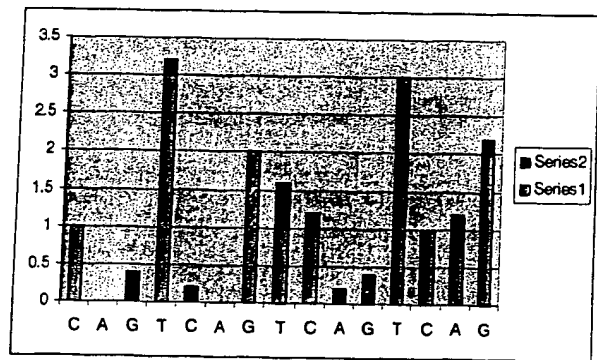


D

FIGURE 14

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Effect of a leading strand population
on extension signals

FIGURE 15